

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)
(PCT Rules 44bis.3(c) and 72.2)

To:

NAKAMURA, Tomoyuki
c/o Miyoshi International Patent Office
Tower 2-8, Toranomon 1-chome
Minato-ku
Tokyo 1050001
JAPON

2007. 9. 23

MIYOSHI
PATENT

Date of mailing (day/month/year)
20 September 2007 (20.09.2007)

Applicant's or agent's file reference
JSONY-758PCT

IMPORTANT NOTIFICATION

International application No.
PCT/JP2006/302816

International filing date (day/month/year)
17 February 2006 (17.02.2006)

Applicant

SONY CORPORATION et al

1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).



The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

EP

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO
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1211 Geneva 20, Switzerland

Authorized officer

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference JSONY-758PCT	FOR FURTHER ACTION	See item 4 below
International application No. PCT/JP2006/302816	International filing date (<i>day/month/year</i>) 17 February 2006 (17.02.2006)	Priority date (<i>day/month/year</i>) 03 March 2005 (03.03.2005)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant SONY CORPORATION		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).
2. This REPORT consists of a total of 5 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.
3. This report contains indications relating to the following items:

<input checked="" type="checkbox"/> Box No. I	Basis of the report
<input type="checkbox"/> Box No. II	Priority
<input type="checkbox"/> Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/> Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/> Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input checked="" type="checkbox"/> Box No. VI	Certain documents cited
<input type="checkbox"/> Box No. VII	Certain defects in the international application
<input type="checkbox"/> Box No. VIII	Certain observations on the international application
4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Date of issuance of this report 11 September 2007 (11.09.2007)
Facsimile No. +41 22 338 82 70	Authorized officer <div style="text-align: center; font-weight: bold;">Yoshiko Kuwahara</div> e-mail: pt07.pct@wipo.int

PATENT COOPERATION TREATY

TRANSLATION

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing
(day/month/year)

Applicant's or agent's file reference

JSONY-758PCT

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/JP2006/302816

International filing date (day/month/year)

17.02.2006

Priority date (day/month/year)

03.03.2005

International Patent Classification (IPC) or both national classification and IPC

Applicant

SONY CORPORATION

1. This opinion contains indications relating to the following items:

- | | | |
|-------------------------------------|--------------|--|
| <input checked="" type="checkbox"/> | Box No. I | Basis of the opinion |
| <input type="checkbox"/> | Box No. II | Priority |
| <input type="checkbox"/> | Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input type="checkbox"/> | Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> | Box No. V | Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input checked="" type="checkbox"/> | Box No. VI | Certain documents cited |
| <input type="checkbox"/> | Box No. VII | Certain defects in the international application |
| <input type="checkbox"/> | Box No. VIII | Certain observations on the international application |

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP	Date of completion of this opinion	Authorized officer
Facsimile No.		Telephone No.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2006/302816

Box No. I

Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of:
 - ☒ the international application in the language in which it was filed
 - ☐ the translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rule 12.3(a) and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
 - ☐ a sequence listing
 - ☐ table(s) related to the sequence listing
 - b. format of material
 - ☐ on paper
 - ☐ in electronic form
 - c. time of filing/furnishing
 - ☐ contained in the international application as filed
 - ☐ filed together with the international application in electronic form
 - ☐ furnished subsequently to this Authority for the purposes of search
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/JP2006/302816

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement			
Novelty (N)	Claims	1-14	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	1-14	NO
Industrial applicability (IA)	Claims	1-14	YES
	Claims		NO
2. Citations and explanations:			
<p>Document 1: JP 2003-98434 A (Canon Inc.), 03 April 2003 Document 2: JP 11-237550 A (Canon Inc.), 31 August 1999</p> <p>The inventions of claims 1-14 do not appear to involve an inventive step based on document 1 and document 2 cited in the ISR. Document 1 describes a zoom lens comprising in the order of description from a physical body side a first lens group with a positive refractive power that is immovable in the optical axis direction for varying magnification and focusing, a second lens group with a negative refractive power having a variable magnification function, an aperture, a third lens group with a positive refractive power, and a fourth lens group with a positive refractive power having a function of correcting an image plane that is changed by variable magnification and a focusing function. Claim 6 of document 1 describes a conditional equation including conditional equations (3) and (4) described in the claims of the present application. Further, in the numerical examples 1 and 3 of document 1, a first lens group has four lenses in the order of description from the physical body side, namely, a joint lens of a negative lens and a positive lens, a positive lens, and a positive lens, a second lens group has four lenses in the order of description from the physical body side, namely, a negative lens of a meniscus shape such that a concave surface faces an object, a negative lens, a positive lens, and a negative lens, and a fourth lens group has three lenses in the order of description from the physical body side, namely, a positive lens, a negative lens, and a positive lens. In an example described therein, the conditional equation (1) described in the claims of the present application is satisfied.</p> <p>Document 1 does not describe that a third lens group is composed of a negative portion group having a negative refractive power and a positive portion group having a positive refractive power that is disposed via an air gap on the image side of the negative portion group, but document 2 describes a variable magnification optical system comprising, in the order of description from the physical object side, four groups, namely, a first group with a positive refractive power for fixing during variable magnification and focusing, a second group with a negative refractive power that has a variable magnification function, a third group with a positive refractive power, and a fourth group with a positive refractive power that has both the correction function of correcting the image plane that is changed by variable magnification and a focusing function, the third group that has a zoom optical system having more than two lens groups among a 31st group with a negative refractive power and a 32nd group of a positive refractive power, and numerical example 1 of document 2 describes that the conditional equation (2) described in the claims of the present application is satisfied. A common feature of the inventions of documents 1 and 2 is that they are positive, negative, positive, positive four-group zoom lenses. A common feature of the "third lens group" described in document 1 and "the third group" described in document 2 is that they have a function of displacing to provide a component in the perpendicular direction with respect to an optical axis and correcting the position of image in the perpendicular direction with respect to the optical axis. Employing the third group having a group with a negative refractive power and a group with a positive refractive power, as described in document 2, instead of the third lens group described in document 1 could have easily been conceived by a person skilled in the art.</p>			

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/JP2006/302816

Box No. VI

Certain documents cited

1. Certain published documents (Rule 43bis.1 and 70.10)

Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
JP 2006-47771 A	16.02.2006	05.08.2004	
[E, X]			

2. Non-written disclosures (Rule 43bis.1 and 70.9)

Kind of non-written disclosure	Date of non-written disclosure (day/month/year)	Date of written disclosure referring to non-written disclosure (day/month/year)